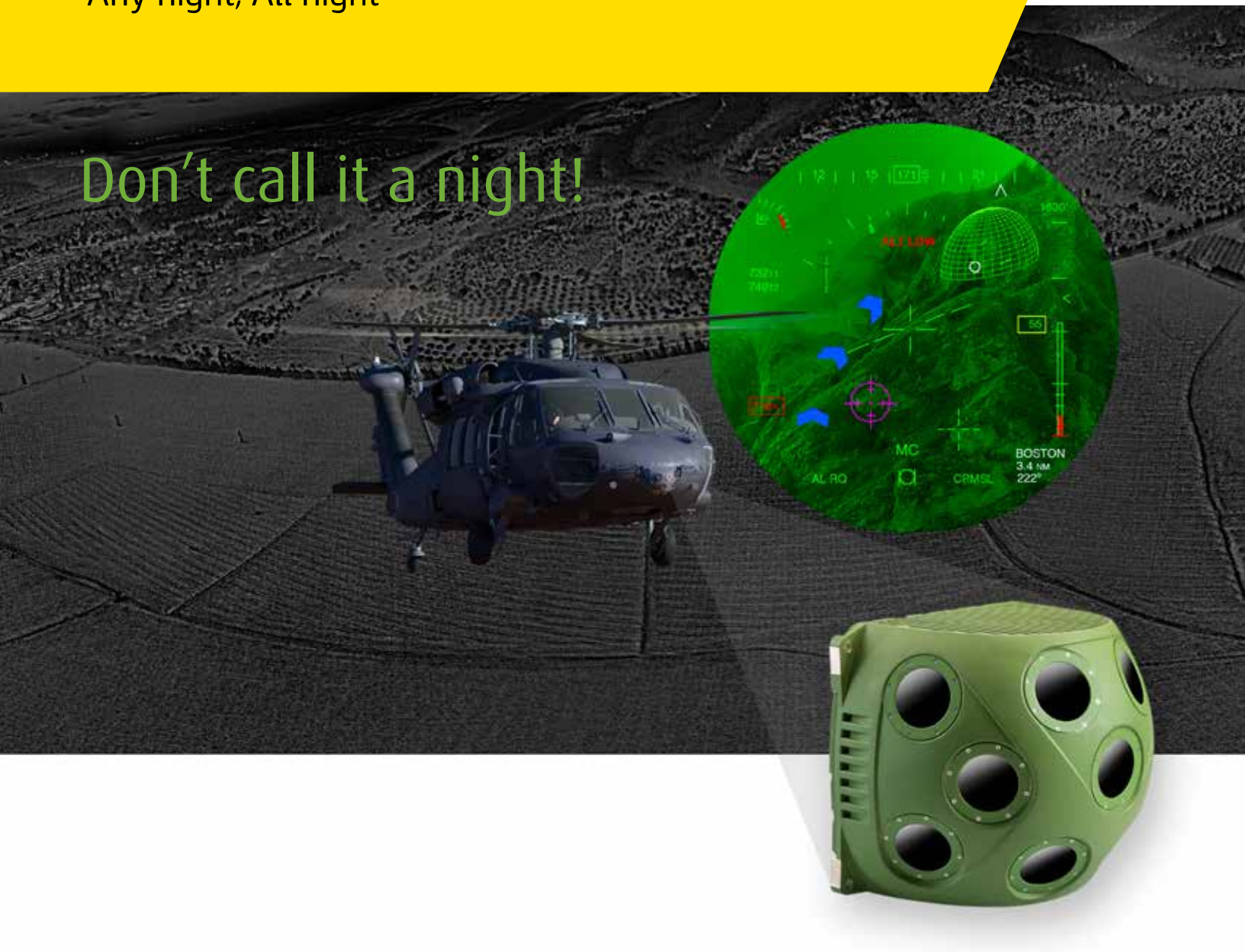
BrightNite™

Any night, All night



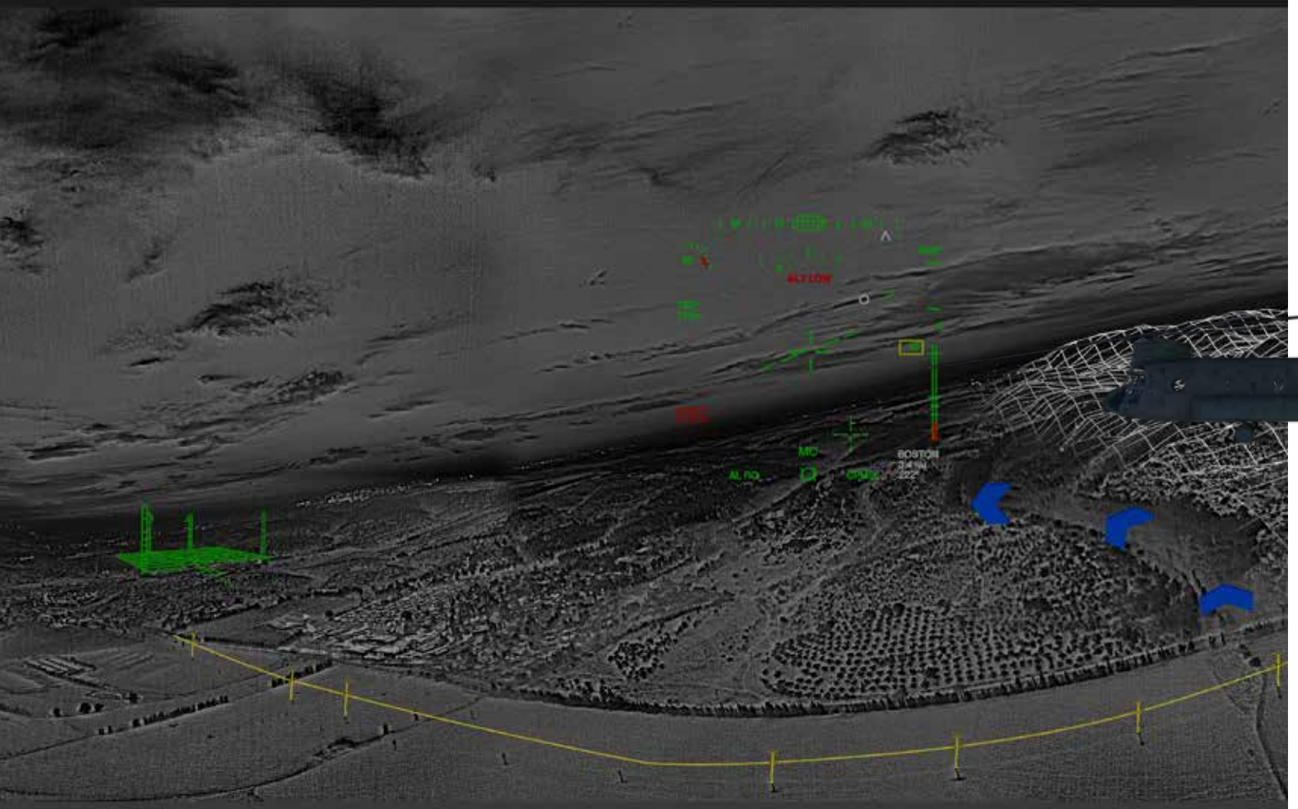
Elbit Systems™
Aerospace

BrightNite™

Any night, All night

BrightNite unique night vision pilotage solution brings fused image of the outside world to the pilots helmet mounted display, based on a staring array of multi-spectral uncooled FLIR and CMOS sensors.

* Footage taken during BrightNite's flight



190° Horizontal / 90° Vertical

Complete panoramic real-time display

Fused picture (FLIR/CMOS) from sensor to eyes,
provides intuitive pilotage capabilities at all night conditions

Suitable for a wide range of platforms:

Utility | Cargo | Special forces | Search & Rescue

Carry out your mission in 90% of the nights

Low, stealth, operational night flights can now be carried out any night and be performed under the toughest conditions.

Imagine flying through extreme weather conditions, harsh environment and challenging hostile territory and above all, in total darkness. Execute your operational flights based on your choice and preferences, without limitations and barriers.

Fly, Any night, All night.

Dark night

Low Light Imager

BrightNite

BrightNite Display

Introducing Elbit Systems' BrightNite, combat proven end-to-end intuitive, light-weight complete solution.

Augmenting the standard Night Vision Goggles (NVG) with a clear fused image displayed to the eyes of the aircrew.

Leave behind the classic dependency and improve your mission probability with this staring uncooled FLIR sensor, fused by Multi-Spectral Synthetic Vision System (SVS) and color conformal 3D mission symbology. An ultra-wide Field of Regard display solution brings together the best of visual and synthetic panoramic vision to allow all air-crew members to be surrounded with a daylight–like picture from all angles.

Operational Benefits

- Supports stealth operations in all night and low visibility conditions
- Improves mission probability and flight safety
- Allows pilots to fly in a head-up, eyes-out position
- Intuitive piloting thanks to advanced multispectral FLIR-CMOS sensor
- Integrates with Missile Warning System
- Overcome LVL/Brownout/Whiteout problems
- Low latency tracking of both pilots line-of-sight using a non-gimbaled sensor architecture

BrightNite™

Any night, All night

Key Features

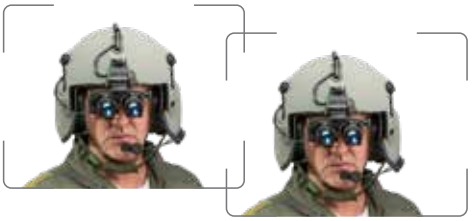
- Perform missions in more than 90% of the nights
- Degraded Visual Environment (DVE) capabilities
- Brownout, Whiteout and Sprayout solutions
- Serves multiple crew-members independently
- Includes ultra-wide Field of Regard
- Incorporates SVS and 3D mission conformal symbology
- Provides high-resolution image
- Safety mechanism to provide view beyond sensor's Field of Regard
- Non-gimbaled FLIR sensor and low-light CMOS

System Advantages

- Complete end-to-end solution
- Affordable, lightweight and compact system
- Full scalability and upgradability
- Complies with the world leading Helmet Display and Tracking System (HDTS) - ANVIS/HUD™

BrightNite Sensor

Processing Unit



Pilot's & Co-Pilot's **HDTS**

or

Pilot's & Co-Pilot's **X-Sight™**

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